

Work Order ID 79362

79362

Page 1

Wednesday, January 25, 2012 12:26:28 PM

Item ID: D3589-041 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: LATCH ASSEMBLY
 Start Date: 1/25/2012 Start Qty: 4.00 ***4*** Cust Item ID:
 Required Date: 2/3/2012 Req'd Qty: 4.00 ***4*** Customer:
 Reference:

Approvals: Process Plan: M.C.J Date: 12/01/25 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3589	Rev B								

100

0.00

100

Large Fab

Large Fab

Memo

0.00

1- Form D3589-11, assemble and weld D3589-9 to D3589-11 as per dwg D3589

2- grind weld flush as per dwg D3589

3- slide (4) D3589-3 Arm Guides on D3589-1 Arm and weld D3589-13 lugs on both ends as per dwg D3589

*** ensure that the 4 ARM GUIDES are on the ARM before welding both LUGS***

4- using DT9033 jig install parts on door and weld as per dwg D3589 QSI004

ensure parts fit correctly on jig

A/R Stainless Steel Rod Batch: M114509

EL 12-2-22 (X4)

110

QC9- Inspect visual per QSI004- Fusion Welds

0.00

110

QC

Quality Control

Memo

0.00

QC10-02-22

4X Ø

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Wednesday, January 25, 2012 12:26:28 PM

Quality Control

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Work Order ID 79362***79362***

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Wednesday, January 25, 2012 12:26:28 PM

Item ID: D3589-041

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: LATCH ASSEMBLY

Start Date: 1/25/2012 Start Qty: 4.00

4

Cust Item ID:

Required Date: 2/3/2012 Req'd Qty: 4.00

4

Customer:

Reference:

Run Start

NR1

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop

NR2

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	Identify as per dwg & Stock Location: <u>198A</u>	0.00							
150									
Packaging	Memo	0.00							
Packaging									
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.00							
Quality Control									

12/02/24
(H)

W/O:		WORK ORDER CHANGES					
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Picklist Print

Wednesday, January 25, 2012 12:26:33 PM

Page 1

Work Order ID: 79362

79362

Parent Item: D3589-041

D3589-041

Parent Item Name: LATCH ASSEMBLY

Start Date: 1/25/2012

Required Date: 2/3/2012

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP Rev:A new issue 08-06-05 DD verified by:ec IPP RevB: revise
process as per coss DD 10.01.18 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D3589-1		Manufactured	No			100	Each	2.0000	1	4			
D3589-1									**				
ARM													

80186 x 4

Location	Loc Qty	Loc Code
WA	2	
77694	2	

D3589-11		Manufactured	No			100	Each	35.0000	1	4			
D3589-11									**				
FWD GUIDE PLATE													

Location	Loc Qty	Loc Code
WA023	10	
77695	10	
WA025	25	
77507	25	

D3589-13		Manufactured	No			100	Each	5.0000	2	8			
D3589-13									**				
LUG													

B80189 x 1.

Location	Loc Qty	Loc Code
WA023	5	
77687	5	

D3589-3		Manufactured	No			100	Each	5.0000	4	16			
D3589-3									**				
ARM GUIDE													

Location	Loc Qty	Loc Code
WA	5	
77615	5	

80187 x 16

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Parent Item: D3589-041

D3589-041

Parent Item Name: LATCH ASSEMBLY

Start Date: 1/25/2012

Required Date: 2/3/2012

Start Qty: 4.00

Required Qty: 4.00

D3589-7 Manufactured No

100 Each 7.0000 1 4

D3589-7

AFT GUIDE PLATE

**

EL 12-2-21

Location

Loc Qty

Loc Code

ST072

-5

76030

7

4

WA023

12

D3589-9 Manufactured No

100 Each 12.0000 1 4

D3589-9

FWD GUIDE PLATE

**

EL 12-2-21

Location

Loc Qty

Loc Code

WA

12

78579

12

4

AN960JD4 NAS1149DN432 Purchased No

130 Each 1,153.000 4 16

AN960JD4

Washer

**

FF 12-02-23

Location

Loc Qty

Loc Code

ST337A

1153

11735

722

7636

431

16

D3589-15 Manufactured No

130 Each 3.0000 2 8

D3589-15

LINK

**

FF 12-02-23

Location

Loc Qty

Loc Code

WA023

3

77688

3

79863

3

5

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D3589-041

Parent Item Name: LATCH ASSEMBLY

Start Date: 1/25/2012

Required Date: 2/3/2012

Start Qty: 4.00

Required Qty: 4.00

MS20392-1C7

Purchased

No

130

Each

10.0000

2

8

MS20392-1C7

Pin

**

FF 12-02-23

Location

Loc Qty

Loc Code

ST315

10

119510

10

8

MS24665-1010

Purchased

No

130

Each

359.0000

2

8

MS24665-1010

COTTER PIN

**

FF 12-02-23

Location

Loc Qty

Loc Code

ST309

359

108335

200

114405

159

8

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

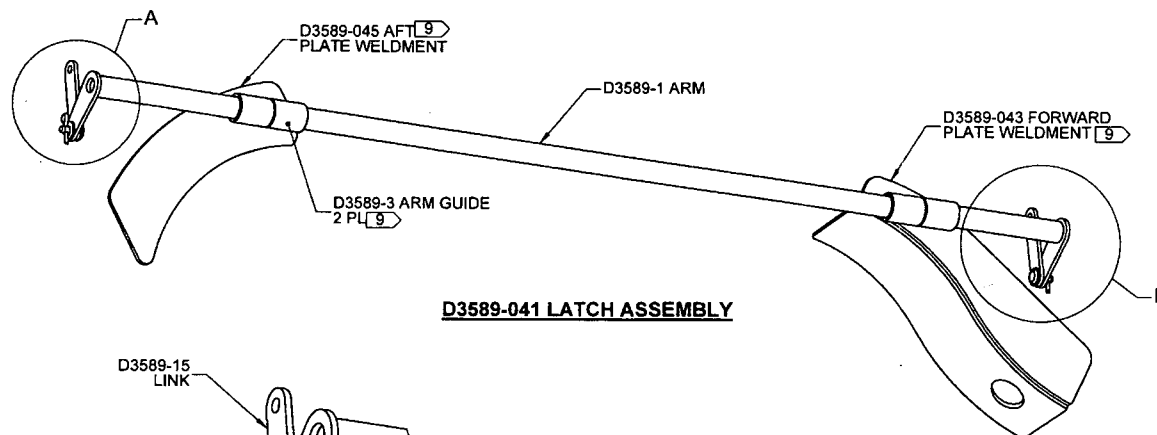
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

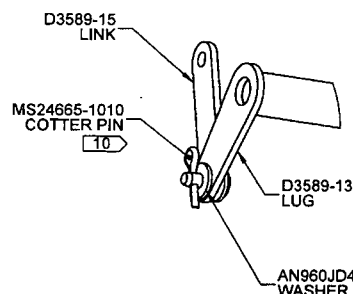
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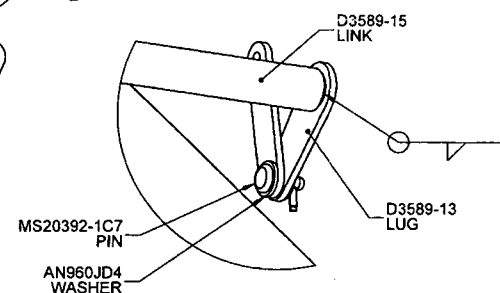
QTY. -041	P/N	DESCRIPTION
X	D3589-041	LATCH ASSEMBLY
1	D3589-045	AFT PLATE WELDMENT
1	D3589-043	FORWARD PLATE WELDMENT
1	D3589-1	ARM
2	D3589-3	ARM GUIDE
2	D3589-13	LUG
2	D3589-15	LINK
4	AN960JD4	WASHER
2	MS20392-1C7	PIN
2	MS24665-1010	COTTER PIN



D3589-041 LATCH ASSEMBLY



DETAIL A: LINK ASSEMBLY DETAIL
SCALE 2X
2 PL



**DETAIL B: WELDING AND
LINK ASSEMBLY DETAIL**
SCALE 2X
2 PL

RELEASED
09/02/05/11/12

STONY COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NO. **79362 N.C.J**
12/01/25

D3589-041 NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3589-041" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.73 lbs
- 8) WELDING: PER DART QSI 004 USING DT9033
- 9) IDENTIFIED PARTS ARE LOOSE ON D3589-1 ARM
- 10) INSTALL COTTER PIN IN ACCORDANCE WITH MS33540

B	0.90 AND 0.63 REF WERE 1.97 AND 0.60 (ZN C6-2); 0.50 WAS 1.89 (ZN C3-2); 0.75 REF REPLACES 2.01 (ZN C2-2); 29" WAS 15" (ZN B2-2); 19.00 WAS 18.88 (ZN D4-4); REDESIGNED D3589-9 (ZN A6-6) AND D3589-11F (ZN C2-3) REASON: REDESIGN FOR PROPER FIT AND TO MATCH TESTED CONFIGURATION	MB	08.06.25
A	NEW ISSUE	MB	08.05.29
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	08.06.25		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D3589** REV. B
SHEET 1 OF 8
TITLE **LATCH ASSEMBLY** SCALE NTS

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

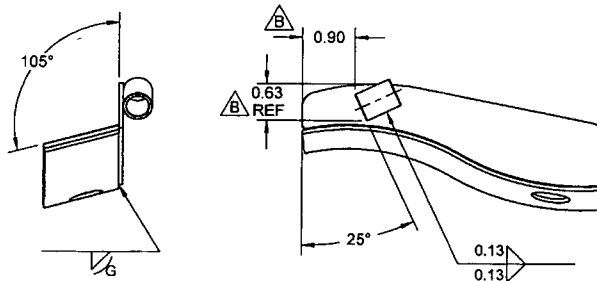
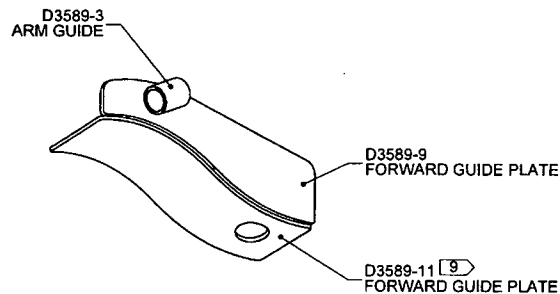
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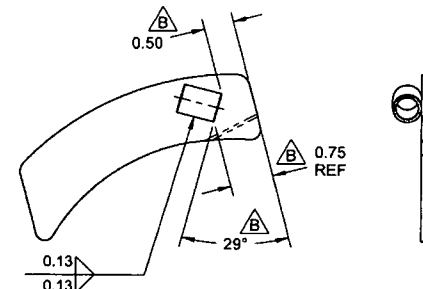
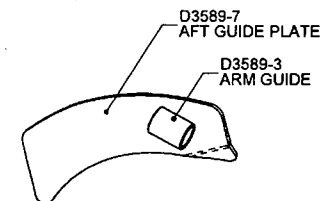
NOTE: Date & initial all entries

79362

QTY -043	QTY -045	P/N	DESCRIPTION
X		D3589-043	FORWARD PLATE WELDMENT
	X	D3589-045	AFT PLATE WELDMENT
1	1	D3589-3	ARM GUIDE
1	1	D3589-7	AFT GUIDE PLATE
1		D3589-9	FORWARD GUIDE PLATE
1		D3589-11	FORWARD GUIDE PLATE



D3589-043 FORWARD PLATE WELDMENT



D3589-045 AFT PLATE WELDMENT

D3589-043/-045 NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3589-0XX" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT:
 - D3589-043 = 0.22 lbs
 - D3589-045 = 0.10 lbs
- 8) WELDING: PER DART QSI 004 USING DT9033
- 9) FORM D3589-11 TO FIT D3589-9 MATING EDGE

RELEASED
09/07/05

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. D3589	REV. B
MFG. APPR.			SHEET 2 OF 8
APPROVED		TITLE LATCH ASSEMBLY	SCALE
DE APPR.			NTS
DATE	08.06.25	<small>COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

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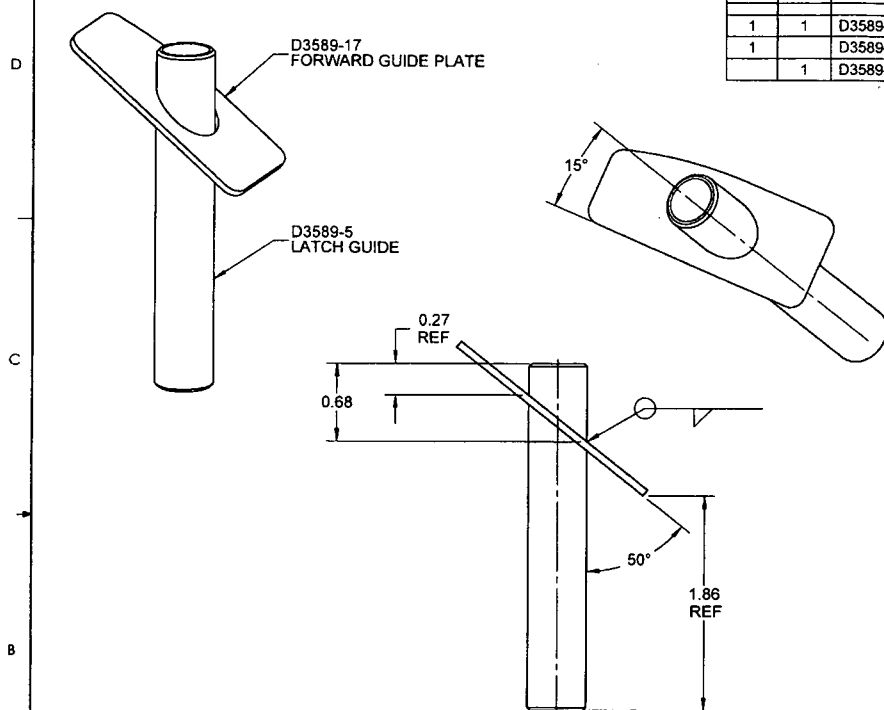
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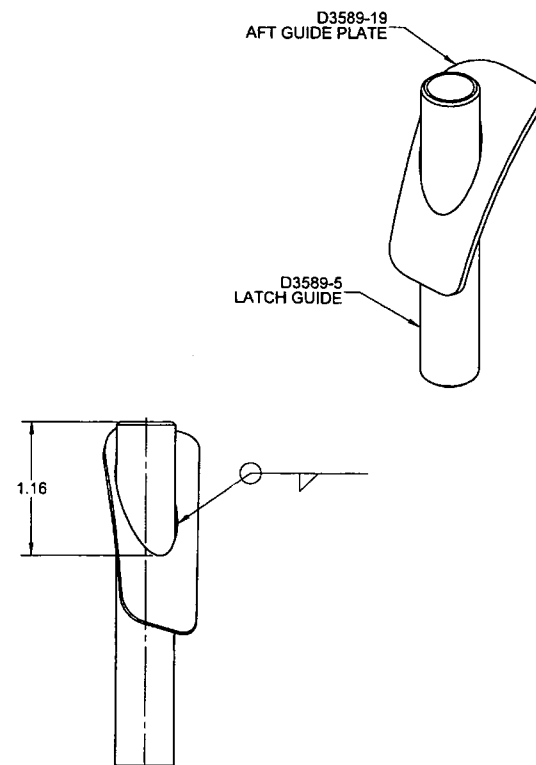
NOTE: Date & initial all entries

79362

QTY -047	QTY -049	P/N	DESCRIPTION
X		D3589-047	FORWARD GUIDE
	X	D3589-049	AFT GUIDE
1	1	D3589-5	LATCH GUIDE
1		D3589-17	FORWARD GUIDE PLATE
	1	D3589-19	AFT GUIDE PLATE



D3589-047 FORWARD GUIDE



D3589-049 AFT GUIDE

D3589-047/-049 NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3589-0XX" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.07 lbs EACH
- 8) WELDING: PER DART QSI 004

RELEASED
9/26/07

DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. D3589
MFG. APPR.		REV. B
APPROVED		SHEET 3 OF 8
DE APPR.		TITLE LATCH ASSEMBLY
DATE	08.06.25	SCALE NTS
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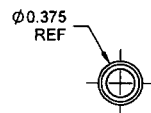
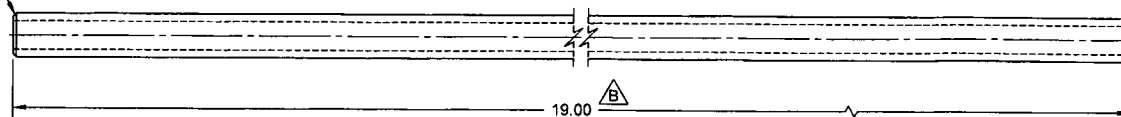
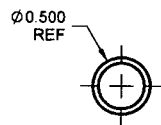
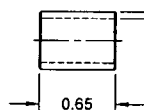
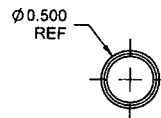
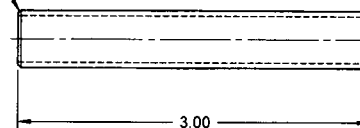
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0.03 X 45°
CHAMFER
2 PL0.065
REF**D3589-1 ARM**0.058
REF**D3589-3 ARM GUIDE**0.03 X 45°
CHAMFER
2 PL0.049
REF**D3589-5 LATCH GUIDE****D3589-1/-3/-5 NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SEAMLESS ROUND TUBING
 D3589-1: 0.375 O.D. X 0.065 WALL (REF. DART SPEC M304TR0.375W.065)
 D3589-3: 0.500 O.D. X 0.058 WALL (REF. DART SPEC M304TR0.500W.058)
 D3589-5: 0.500 O.D. X 0.049 WALL (REF. DART SPEC M304TR0.500W.049)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: - D3589-1 = 0.34 lbs
 - D3589-3 = 0.01 lbs
 - D3589-5 = 0.06 lbs

RELEASED
9/12/25

DESIGN	<i>JA</i>	DART AEROSPACE LTD	
DRAWN	<i>JA</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>PH</i>	DRAWING NO.	REV. <i>B</i>
MFG. APPR.	<i>DA</i>	D3589	SHEET 4 OF 8
APPROVED	<i>JA</i>	TITLE	SCALE
DE APPR.	<i>JA</i>	LATCH ASSEMBLY	
DATE	08.06.25	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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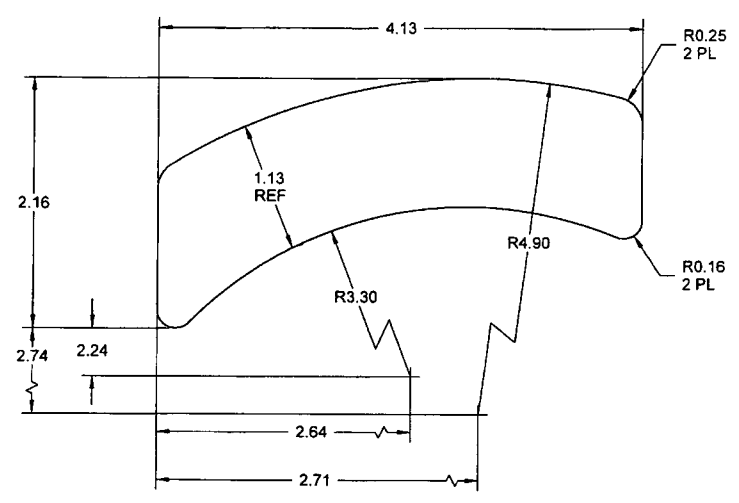
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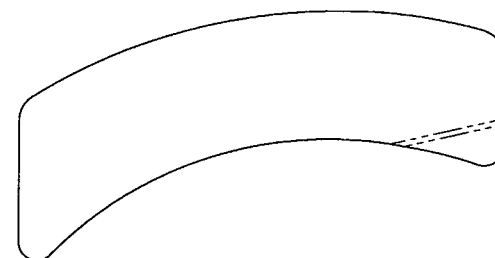
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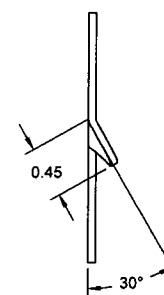
79362



**D3589-7F AFT GUIDE PLATE
FLAT PATTERN**



**D3589-7 AFT GUIDE PLATE
MAKE FROM D3589-7F**



RELEASED
09/24/05 MB

D3589-7F-7F NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, PER AMS 5513 OR AMS 5524, OR MIL-S-5059 (ANNEALED) 2B FINISH
16 GAUGE (0.063 THICK), (REF. DART SPEC M304S16GA)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.09 lbs

DESIGN	<i>JA</i>	DART AEROSPACE LTD	
DRAWN	<i>JA</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>PH</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>DS</i>	D3589	SHEET 5 OF 8
APPROVED	<i>JA</i>	TITLE	SCALE
DE APPR.	<i>JA</i>	LATCH ASSEMBLY	NTS
DATE	08.06.25	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

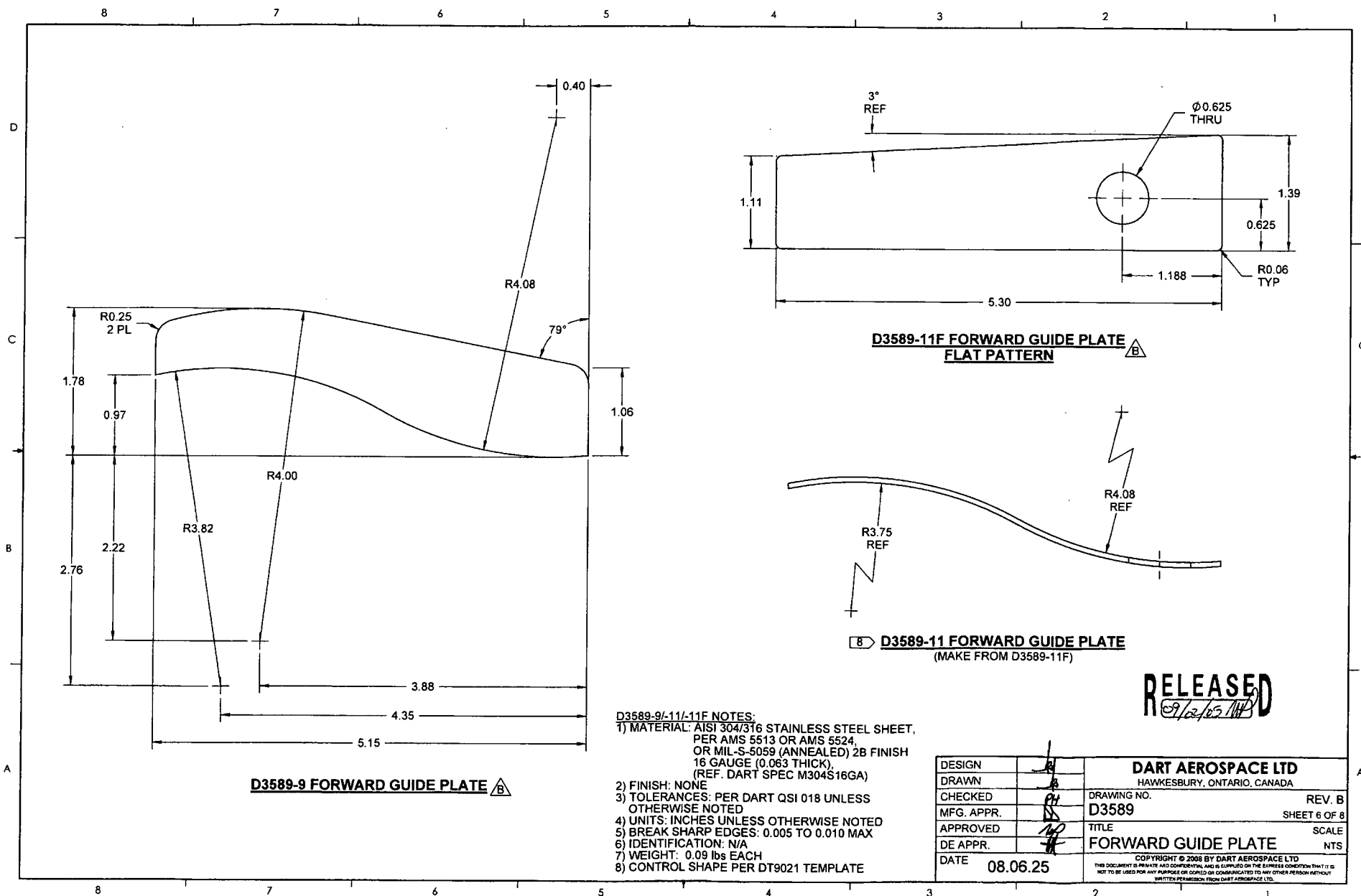
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

79362



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

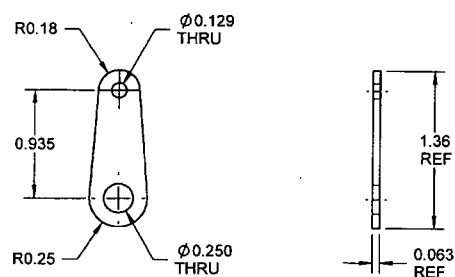
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

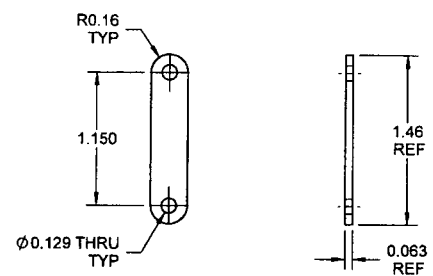
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

7362



D3589-13 LUG



D3589-15 LINK

RELEASED
09/02/05

D3589-13/-15 NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, PER AMS 5513 OR AMS 5524, OR MIL-S-5059 (ANNEALED) 2B FINISH
16 GAUGE (0.063 THICK), (REF. DART SPEC M304S16GA)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.01 lbs EACH

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3589	SHEET 7 OF 8
APPROVED		TITLE	SCALE
DE APPR.		LATCH ASSEMBLY	NTS
DATE	08.06.25	<small>COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

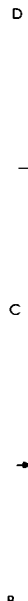
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D3589-17 FORWARD GUIDE PLATE



D3589-19F AFT GUIDE PLATE FLAT PATTERN



D3589-19 AFT GUIDE PLATE
(MAKE FROM D3589-19F)

RELEASE
09/02/05/11

D3589-17/-19/-19F NOTES:

- 1) MATERIAL: AISI 304-316 STAINLESS STEEL SHEET, PER AMS 5513 OR AMS 5524,
OR MIL-S-5059 (ANNEALED) 2B FINISH
16 GAUGE (0.063 THICK), (REF. DART SPEC M304S16GA)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs EACH

DESIGN	<i>1</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D3589 TITLE LATCH ASSEMBLY SCALE NTS	REV. B
DRAWN	<i>1</i>		SHEET 8 OF 8
CHECKED	<i>PH</i>		
MFG. APPR.	<i>1</i>		
APPROVED	<i>1</i>		
DE APPR.	<i>1</i>		
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries